UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/816,267	03/31/2004	John P. Brizek	1020.P18413	9827
	7590 01/31/2008	· ·	EXAMINER	
KACVINSKY LLC C/O INTELLEVATE P.O. BOX 52050 MINNEAPOLIS, MN 55402			PAN, JOSEPH T	
			ART UNIT	PAPER NUMBER
WIIWE II OE	, 1411	,	2135	-
			MAIL DATE	DELIVERY MODE
			01/31/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<u> </u>	·					
•	Application No.	Applicant(s)	5			
0.55	10/816,267	BRIZEK ET AL.	\bigcup .			
Office Action Summary	Examiner	Art Unit				
	Joseph Pan	2135				
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with th	e correspondence address	s			
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING IDENTIFY TO THE MAILING IDENTIFY THE MAILING	DATE OF THIS COMMUNICAT .136(a). In no event, however, may a reply but will apply and will expire SIX (6) MONTHS for the cause the application to become ABANDO	ION. e timely filed rom the mailing date of this commun DNED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 26 I	November 2007.	. •				
2a)⊠ This action is FINAL . 2b)□ Thi	This action is FINAL . 2b) This action is non-final.					
·— ··						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.				
Disposition of Claims		•				
4) ⊠ Claim(s) <u>1,3-9,11-15,17-20 and 22</u> is/are pen 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3-9,11-15,17-20 and 22</u> is/are reje 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.	•.				
Application Papers						
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 31 March 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) ☐ The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	a)⊠ accepted or b)□ objecte e drawing(s) be held in abeyance. ction is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applic ority documents have been rece au (PCT Rule 17.2(a)).	cation No eived in this National Stag	je			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:					

10/816,267 Art Unit: 2135

DETAILED ACTION

1. Applicant's response filed on November 26, 2007 has been carefully considered. Claims 2, 10, 16 and 21 have been canceled. Claims 1, 7, 9, 11, 13, 15, 17, 19 and 20 have been amended. Claims 1, 3-9, 11-15, 17-20 and 22 are pending.

Claim Objections

2. Claim 9 is objected to because of the following informalities: Claim 9 contains the following statements: ", wherein said dynamic attestation module comprises an integrity module to dynamically generate a first set of integrity information for <u>said application</u> by selecting <u>an application</u> from a plurality of applications to be executed by said first processing system, and generating said first set of integrity information for said application using a cryptographic algorithm." (emphasis added). The "said application" is undefined since no application has been selected at that time. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

10/816,267 Art Unit: 2135

4. Claims 1, 3-9, 11-15, 17-20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. (U.S. Patent No. 7,069,439 B1), hereinafter "Chen", in view of Nakayama et al. (U.S. Pub. No. 2004/0147251 A1), hereafter "Nakayama".

Referring to claims 1, 7, 15, 20:

- i. Chen teaches:
 - A method, comprising:

dynamically generating a first set of integrity information for a first processing system by generating said first set of integrity information for an application using a cryptographic algorithm (see figure 5, elements 530 'generate digest', 570 'compare metrics'; column 4, line 59-column 5, line 2; column 8, lines 4-16; and column 11, lines 5-16 of Chen);

sending said first set of integrity information to a second processing system (see figure 5, elements 535 'sign & return digest' of Chen); and

generating an attestation value for said first processing system by said second processing system using said first set of integrity information and a dynamic attestation module connected to said second processing system (see column 11, lines 5-16, '...compares the computed integrity metrics, which it extracts from the challenge response, with the proper platform integrity metric, which it extracts from the certificate.', of Chen, emphasis added).

Chen discloses dynamic authentication of the platform and application (see column 8, lines 4-16, particularly "Other know processes, for example virus checkers, will typically be in place to check that the operating system and application program code has not been subverted", of Chen, emphasis added). However, Chen does not specifically mention selecting an application from a plurality of applications.

ii. Nakayama teaches a portable terminal wherein Nakayama discloses selecting an application from a plurality of applications (see figure 5, element

10/816,267 Art Unit: 2135

222 'service identifier area' [i.e., a plurality of applications]; page 7, paragraph [0102], lines 9-12 "The service identifier area 222 stores identifiers of services (e.g., "0001", "0002", "0003",...) for which the corresponding value entities in the value entity area 221 are used"; and paragraph [0098], lines 7-9 "or pull-type transmission in which the store server 30 transmits the application in response to an active transmission request from the portable terminal 20", of Nakayama).

- iii. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Nakayama into the method of Chen to select an application from a plurality of applications for authentication.
- iv. The ordinary skilled person would have been motivated to have applied the teaching of Nakayama into the system of Chen to select an application from a plurality of applications for authentication, because Chen teaches dynamic authentication of platform and applications (see column 8, lines 4-16 of Chen), and Nakayama teaches selection an application from a plurality of applications (see ii above). Therefore, Nakayama's teaching could enhance Chen's system by providing more flexibility.

Referring to claims 3, 22:

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 1 above). Chen further discloses

retrieving a second set of integrity information for said first processing system (see column 11, lines 5-16, '... compares the computed integrity metrics, which it extracts from the challenge response, with the proper platform integrity metric, which it extracts from the certificate.', of Chen, emphasis added);

comparing said first set of integrity information with said second set of integrity information (see column 11, lines 5-16 of Chen); and

generating said attestation value in accordance with said comparison (see column 11, lines 5-16 of Chen).

Referring to claim 4:

10/816,267 Art Unit: 2135

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 1 above). Chen further discloses the encryption key (see column 4, lines 56-58 of Chen).

Referring to claims 5, 19:

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 1 above). Chen further discloses the authentication (see column 7, lines 21-26 of Chen).

Referring to claim 6:

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 1 above). Chen further discloses the decryption (see column 7, lines 21-26 of Chen).

Referring to claim 8:

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 7 above). Chen further discloses the first and the second process (see figure 5, 'trusted device', 'user' [i.e., smart card] of Chen).

Referring to claim 17:

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 15 above). Chen further discloses retrieving a second set of integrity information (see column 11, lines 5-16 '...with the proper platform integrity metric, which is extracts from the certificate.', of Chen).

Referring to claim 18:

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 15 above). Chen further discloses comparing the first set of integrity metric with the second set of integrity metric (see column 11, lines 5-16 'compares', of Chen).

Referring to claim 9:

i. Chen teaches:

A method, comprising:

10/816,267 Art Unit: 2135

a first processing comprising a plurality of applications (see figure 5, elements 530, 535, 540; column 4, line 59-column 5, line 2; and column 11, lines 5-16 of Chen);

a second processing system to connect said first processing system (see figure 5, element 'user' [i.e., smart card] of Chen); and

a dynamic attestation module to connect to said first and second processing systems, said second processing system to perform dynamic attestation for one of said applications to be executed by said first processing system using said dynamic attestation module, wherein said dynamic attestation module comprises an integrity module to dynamically generate a first set of integrity information for said application by generating said first set of integrity information for said application using a cryptographic algorithm (see column 11, lines 5-16, '...compares the computed integrity metrics, which it extracts from the challenge response, with the proper platform integrity metric, which it extracts from the certificate.', of Chen, emphasis added).

However, Chen does not specifically mention the antenna and the transceiver.

Chen discloses dynamic authentication of the platform and application (see column 8, lines 4-16, particularly "Other know processes, for example virus checkers, will typically be in place to check that the operating system and application program code has not been subverted", of Chen, emphasis added). However, Chen does not specifically mention selecting an application from a plurality of applications.

ii. Nakayama teaches a portable terminal wherein Nakayama discloses the antenna and the transceiver for communicating with other servers (see figure 3, element 'A' [i.e., antenna]; and figure 11, elements 23 'application receiver', element 27 'value entity transmitter', of Nakayama).

Nakayama further discloses selecting an application from a plurality of applications (see figure 5, element 222 'service identifier area' [i.e., a plurality of applications]; page 7, paragraph [0102], lines 9-12 "The service identifier area 222

10/816,267 Art Unit: 2135

stores identifiers of services (e.g., "0001", "0002", "0003",...) for which the corresponding value entities in the value entity area 221 are used"; and paragraph [0098], lines 7-9 "or pull-type transmission in which the store server 30 transmits the application in response to an active transmission request from the portable terminal 20", of Nakayama).

iii. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Nakayama into the method of Chen to use an antenna and a transceiver for communicating with other servers.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Nakayama into the method of Chen to select an application from a plurality of applications for authentication.

iv. The ordinary skilled person would have been motivated to have applied the teaching of Nakayama into the system of Chen to use an antenna and a transceiver, because Chen teaches a method for performing dynamic attestation via integrity metric (see claim 1 above), and Nakayama teaches utilizing integrity measurement in a portable terminal (see e.g. figure 11, element 20 'integrity measurement part' of Nakayama). Therefore, Nakayama's teaching could enhance Chen's teaching by expanding Chen's method for performing dynamic attestation into a portable device.

The ordinary skilled person would have been motivated to have applied the teaching of Nakayama into the system of Chen to select an application from a plurality of applications for authentication, because Chen teaches dynamic authentication of platform and applications (see column 8, lines 4-16 of Chen), and Nakayama teaches selection an application from a plurality of applications (see ii). Therefore, Nakayama's teaching could enhance Chen's system by providing flexibility.

Referring to claims 11:

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 9 above). They further disclose retrieving a

second set of integrity information (see column 11, lines 5-16 '...with the proper platform integrity metric, which is extracts from the certificate.', of Chen).

Referring to claims 12:

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 9 above). They further disclose comparing the first set of integrity metric with the second set of integrity metric (see column 11, lines 5-16 'compares', of Chen).

Referring to claims 13:

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 9 above). They further disclose the authentication (see column 7, lines 21-26 of Chen).

Referring to claims 14:

Chen and Nakayama teach the claimed subject matter: a method for performing dynamic attestation (see claim 9 above). They further disclose disabling access (see column 11, lines 5-16 '...the whole process ends in step 580 with no further communications taking place', of Chen).

Response to Arguments

5. Applicant's arguments filed November 26, 2007 have been fully considered. The newly amended independent claims now contains the claim limitation "selecting an application from a plurality of applications to be executed by said first processing system, and generating said first set of integrity information for said application using a cryptographic algorithm". Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Chen and Nakayama.

Applicant argues:

10/816,267 Art Unit: 2135

"In fact, Chen fails to mention dynamic authentication or attestation within its disclosure" (see page 3, 1st paragraph, Applicant's Arguments/Remarks).

Examiner maintains:

Chen discloses "In step 530, the trusted device 24 receives the challenge and creates an appropriate response. This may be a digest of the measured integrity metric and the nonce, and optionally its ID label [i.e., dynamically generate a first set of integrity information]. Then, in step 535, the trusted device 24 signs the digest, using its private key, and returns the signed digest, accompanied by the certificate 350, to the user.

In step 540, the user receives the challenge response and verifies the certificate using the well known public key of the TP. The user then, in step 550, extracts the trusted device's 24 public key from the certificate and uses it to decrypt the signed digest from the challenge response. Then, in step 560, the user verifies the nonce inside the challenge response. Next, in step 570, the user compares the computed integrity metric, which it extracts from the challenge response, with the proper platform integrity metric, which it extracts from the certificate. [i.e., generating an attestation value] If any of the foregoing verification steps fails, in steps 545, 555, 565 or 575, the whole process ends in step 580 with no further communications taking place." (see column 10, line 66-column 11, line 16 of Chen).

Therefore, Chen discloses dynamic authentication or attestation.

Conclusion

6. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is

10/816,267 Art Unit: 2135

not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Pan whose telephone number is 571-272-5987.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached at 571-272-3859. The fax and phone numbers for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

Joseph Pan January 28, 2008

KING MAI

THE WAS STATEMENT TO STATE THE STATE OF THE